

NITEC IN PRODUCT DESIGN

CERTIFICATION

Credits required for certification:

Core Modules	: 44
Life Skills Modules	: 9
Elective Modules	: 4
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Total	: 57

COURSE STRUCTURE

Module Title	Credits
CORE MODULES	
Design Foundation Studio	6
Computer Aided Design	6
Digital Essentials & Corporate Styling	6
Materials Exploration	6
Design for Manufacturing & Assembly	6
Design Studio	6
Industry Attachment	8
ELECTIVES (COURSE SPECIFIC)	
Model Making	2
Packaging Design and Branding	2
Pottery Fundamentals	2
ELECTIVES (INTER-DISCIPLINARY)	
Digital Portfolio	2
ELECTIVES (GENERAL) AND LIFE SKILLS MODULES	
For details, click here	

Note: The offer of electives is subject to the training schedule of respective ITE Colleges. Students are advised to check with their Class Advisors on the availability of the elective modules they intend to pursue.

MODULE OBJECTIVES

Core Modules

Design Foundation Studio

On completion of the module, students should be able to apply visual thinking, create design visualisation, perform freehand design sketching and three-dimensional rendering. This module also emphasises hands-on practices to enhance students' creative thinking abilities from working with basic lines and curves to two-dimensional sketches and thumbnails.

Computer Aided Design

On completion of this module, students should be able to generate concepts on screen using Computer Aided Design (CAD) tools. Student will create 3D concept visualisation using CAD tools, execute and manipulate the desired outcome to convey ideas within the CAD environment.

Digital Essentials & Corporate Styling

On completion of the module, students should be able to present and communicate design solution, apply design principles and art direction. Students will also learn presentation techniques and digital imaging, from photos editing to graphics illustration, for digital marketing campaigns.

Materials Exploration

On completion of this module, students should be able to perform model making as a mean of design exploration. Students will learn various processes and techniques suitable for a variety of materials, to create products and models. There will be opportunities for students to lead workshops for school community.

Design for Manufacturing & Assembly

On completion of the module, students should be able to identify different types of materials and the suitable manufacturing techniques. Students will also learn the classification and types of materials, their properties, applications and selection of these materials for product design.

Design Studio

On completion of the module, students should be able to integrate and apply knowledge, skills and values from modules studied throughout the programme in a design project. Students will demonstrate core competencies in Design and crucial future-proof skills in critical thinking, creativity and collaboration.

Industry Attachment

Students will undergo a 6-month industry attachment or work on a design project from the industry. On completion of the module, students should be able to apply the skills and knowledge acquired to take on a range of job scope at the workplace. Students will apply the principles of product design, to conceptualise and execute a design project. Students should be able to develop concept specifications, determine finishing and materials to carry out the design, and present their work to clients confidently within the stated timelines.

Electives (Course Specific)

Model Making

On completion of the module, students should be able to integrate and apply knowledge to create models using traditional craft and digital prototyping. Students will demonstrate competencies in model making, equipment handling and workshop safety.

Packaging Design and Branding

On completion of the module, students should be able to use design principle to develop a branding trademark/logo and packaging design for their new product while working in cooperative group.

Pottery Fundamentals

On completion of the module, students should be able to utilise the basic tools, materials and techniques in pottery. Through this elective, students are able to explore the relationship between space and form by observing and manipulating materials, weight, texture and volume.

Electives (Inter-disciplinary)

Digital Portfolio

On completion of the module, students should be able to create a resume and develop a digital portfolio that will best represent their works in a creative and professional manner while leveraging various media platforms that are relevant.

Electives (General) and Life Skills Modules

For details, click [here](#).